



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

CertainTeed Corporation
18 Moores Road
Malvern, PA 19355

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Flintlastic Self-Adhered Roofing Systems Over Lightweight Concrete Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 8.

The submitted documentation was reviewed by Alex Tigera.



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ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Modified
<u>Material:</u>	APP, SBS
<u>Deck Type:</u>	Lightweight Insulating Concrete
<u>Maximum Design Pressure</u>	-192.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Spec</u>	<u>Description</u>
Flintlastic SA PlyBase	39 ³ / ₈ " x 66'6"; Roll weight: 86 lbs. (2 squares)	ASTM D 1970	Self-adhering, fiberglass reinforced, SBS modified bitumen base/ply sheet.
Flintlastic SA Mid Ply	39 ³ / ₈ " x 32'1"; Roll weight: 62 lbs. (1 square)	ASTM D 6163, Grade S, Type I	Self-adhering, polyester reinforced, SBS modified bitumen ply sheet.
Flintlastic SA Cap FR	39 ³ / ₈ " x 32'11"; Roll weight: 88 lbs. (1 square)	ASTM D 6163, Grade G, Type I	Self-adhering, fiberglass reinforced, SBS modified bitumen cap sheet.
Flintlastic SA Cap FR CoolStar	39 ³ / ₈ " x 32'11"; Roll weight: 90 lbs. (1 square)	ASTM D 6163, Grade G, Type I	Self-adhering, fiberglass reinforced, SBS modified bitumen cap sheet with reflective coating.
Flintlastic SA Cap	39 ³ / ₈ " x 32'11"; Roll weight: 95 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Self-adhering, polyester reinforced, SBS modified bitumen cap sheet.
Flintlastic SA Cap CoolStar	39 ³ / ₈ " x 32'11"; Roll weight: 98 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Self-adhering, polyester reinforced, SBS modified bitumen cap sheet with reflective coating.
FlintPrime Asphalt	1, 3 or 5 gal pail	ASTM D 41	Asphalt primer.
FlintPrime SA	1, 3 or 5 gal pail	Proprietary	Water-based, polymer modified primer.



APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer</u> <u>(With Current NOA)</u>
ACFoam II	Polyisocyanurate foam insulation	Atlas Roofing Corp.
FlintBoard ISO, FlintBoard ISO _H	Polyisocyanurate foam insulation	CertainTeed Corp.
DensDeck, DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC.
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC.
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville Corp.
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Co., LLC

APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer</u> <u>(With Current NOA)</u>
N/A		N/A	N/A	N/A

APPROVED SURFACING/COATING OPTIONS:

TABLE 4

Chosen components must be applied according to manufacturer's application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

<u>System Number</u>	<u>Manufacturer</u>	<u>Application</u>
1.	Generic	Gravel applied at 400 lbs/sq., adhered with flood coat of asphalt at 60 lbs/sq.
2.	Generic	Slag applied at 300 lbs/sq., adhered with flood coat of asphalt at 60 lbs/sq.
3.	Karnak Corp.	Karnak (#97 AF) Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal/sq.
4.	CertainTeed Corp.	FlintCoat A-150 applied at an application rate of 1.5 gal/sq.
5.	Gardner Asphalt Corp.	APOC #212 Fibered Aluminum Roof Coating applied at an application rate of 1.5 gal/sq.
6.	Gardner Asphalt Corp.	APOC #400 Sunbrite applied at an application rate of 3 gal./sq.



EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corp.	FM 4470	3032172	06/12/09
	FM 4470	3008869	03/19/01
	FM 4470	3014692	08/05/03
	FM 4470	3048520	09/19/13
Underwriters Laboratories, Inc.	UL 790	R11656	07/13/87
Momentum Technologies, Inc.	ASTM D 4601	AX31G8D	09/05/08
	ASTM D 3909/ D 4897	AX31G8C	09/05/08
Trinity ERD	ASTM Physical Properties	C10080.09.08-R4	03/25/10
	FM 4470 / TAS 117	C3519.12.03-R1	04/15/11
	ASTM D6163	C31850.06.10-1	06/25/10
	TAS 114	C31420.08.10	09/21/10
	ASTM D1876, TAS 114,	C44580.07.13	07/25/13
	FM 4474		
	Physical Properties	C32970.09.10	09/16/10
	Physical Properties	C10080.09.10-R1	11/18/10
	ASTM D6164	C32970.04.11	04/01/11
	FM 4470	C47350.50.14	05/22/14
PRI Construction Materials Technologies	ASTM D 6163	CTC-034-02-01 REV	11/24/08
	ASTM D6163	CTC-032-02-01	01/22/08
	ASTM D6163	CTC-066-02-01	08/09/11
	ASTM D6222	CTC-070-02-01	08/09/11
	ASTM D6164/4798	CTC-093-02-01	08/09/11
	ASTM D2178	CTC-122-02-01	03/13/12
	ASTM D2178	CTC-123-02-01	03/13/12
	ASTM D4601	CTC-127-02-01	03/13/12
	ASTM D6163	CTC-128-02-01	06/11/12
	ASTM D6163	CTC-129-02-01	06/11/12
	ASTM D6164	CTC-132-02-01	06/11/12

APPROVED ASSEMBLIES

Membrane Type:	SBS MODIFIED, SELF-ADHERING
Deck Type 4I:	Lightweight Concrete, Insulated
Deck Description:	Elastizell Cellular Lightweight Concrete, min. 300 psi.
System Type A(1):	One or more layers of insulation adhered with approved adhesive.
Deck:	Structural concrete with Elastizell Cellular Lightweight Concrete, minimum 4" thick cap.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u>	<u>Fastener Density/ft²</u>
ACFoam II, FlintBoard ISO, FlintBoard _H ISO, H-Shield, ISO 95+GL Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u>	<u>Fastener Density/ft²</u>
DensDeck or DensDeck Prime Minimum 1/4" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in OlyBond 500 applied in 3/4" beads spaced max. 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Primer:	Apply FlintPrime SA to top insulation surface at 0.3 gal/square.
Base sheet:	One ply of Flintlastic SA Mid Ply, self-adhered.
Ply Sheet: (Optional)	One ply of SA Mid Ply or Flintlastic SA PlyBase, self-adhered.
Membrane:	One layer of Flintlastic SA Cap, Flintlastic SA Cap FR, Flintlastic SA Cap CoolStar or Flintlastic SA Cap FR CoolStar.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-192.5 psf (See General Limitation #9)



Membrane Type: SBS MODIFIED, SELF-ADHERING

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Elastizell Range II Lightweight Insulating Concrete, min. 300 psi.

System Type A(2): One or more layers of insulation adhered with approved adhesive.

Deck: Elastizell Range II Lightweight Insulating Concrete over structural concrete.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO, ISO 95+GL or ENRGY 3 Minimum 1.5" thick	N/A	N/A
DensDeck Minimum 1/4" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u>	<u>Fastener Density/ft²</u>
DensDeck or DensDeck Prime Minimum 1/4" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in OlyBond Adhesive Fastener spray applied at approximately 1 gal/square. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Primer: Apply FlintPrime SA to top insulation surface at 0.3 gal/square.

Base sheet: One ply of Flintlastic SA Mid Ply, self-adhered.

Ply Sheet: One ply of SA Mid Ply or Flintlastic SA PlyBase, self-adhered.

(Optional)

Membrane: One layer of Flintlastic SA Cap, Flintlastic SA Cap FR, Flintlastic SA Cap CoolStar or Flintlastic SA Cap FR CoolStar.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design Pressure: -192.5 psf (See General Limitation #9)



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LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.



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GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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